

TABLE 601-xx (for use with ABC per Table 702-1)**MINIMUM TESTING FREQUENCIES**

05/04/21 draft

Mainline Pipe, Laterals, Manholes (initial & final backfill)

Utility Type	Test Area	Minimum Testing Frequency	MAG Section
Sewer, Water, Storm	Springline, Haunching	2 tests per lift per 500', alternate sides of pipe (diameter 18" and larger)	601; 618; 702
Sewer, Water, Storm	Initial Backfill	1 test per 500'; 1 test per sewer stub out, water main lateral, storm lateral	601; 702
Sewer, Water, Storm	Final Backfill	1 test per lift per pipe run; 1 test per lift per sewer stub out, water main lateral, storm lateral	601
Water Valves	Final Backfill	50% of valves or valve clusters (test 1'-3' away)	601
Manholes	Subgrade/Foundation	1 test per manhole	301; 601; Dtls 420, 421
Manholes	Backfill	1 test per lift per manhole, alternate sides of structure	206; 505; 601
Dry Utilities (PUE)	Final Backfill	1 test per lift per 500'	601

Services, Laterals, Crossings (initial and final backfill)

Utility Type	Test Area	Minimum Testing Frequency	MAG Section
Water, Sewer Services	Final Backfill	25% of services, 1 test per lift below subgrade	601
Hydrant Laterals	Initial Backfill	50% of hydrant laterals	601; 702
Hydrants, Hydrant Laterals	Final Backfill	50% of hydrants and laterals; 1 test per lift below subgrade	601
Irrigation, Dry Utility Crossings	Final Backfill	100% of crossings, 1 test per lift below subgrade	601

This Table is for ABC. When using native, refer to Native Table 601-xx***(footnote): The Engineer or their representative reserves the right to modify sampling and testing requirements as needed to ensure quality of materials.******(footnote): "Pipe Run" defined as any length of pipe between two consecutive structures along the pipeline. (ie. manholes, fire hydrants, change of directions, or other items)******(footnote): Lifts to be 12" loose per MAG Section 601.4.5.******(footnote): Where ABC is used for final backfill, testing may be decreased to every other lift with agency approval******(footnote): Minimum testing or "daily portion thereof": Even if daily footage is less than shown in table, each day's production should be tested to ensure consistent results and to account for changes in contractor means, methods, equipment, personnel etc.******(footnote): For deep backfill (>12'), agency may require additional effort such as CLSM or full-time monitoring by geotechnicians.***

